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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Entezarian et al.

Title:

HIGH CAPTURE EFFICIENCY

BAFFLE

Appl. No.:

10/699,573

Filing Date:

10/31/2003

Examiner:

Hopkins, Robert

Art Unit:

1724

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.

Chris Escavaille

(Signature)

June 21, 2005

(Date of Deposit)

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), before the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

RELATED APPLICATIONS

The Examiner is hereby advised of the existence of the applications listed below which share at least some common disclosure with the above-identified patent application and/or which may serve as the basis of priority and/or otherwise relate to the above-identified patent application or one or more of the other patent applications listed below. For completeness, the above-identified application is also included in the list.

For each application, Applicant has also listed all substantive communications with the Patent Office and requests the Examiner to review the same as part of evaluating this patent application. Many of these communications are available to the Examiner on the Patent Office's image file wrapper system. Therefore, copies of these communications are not enclosed. Regardless of whether the communications are on the image file wrapper system, at the Examiner's request, Applicant would be happy to provide copies of any of these communications. Applicant notes that restriction requirements, preliminary amendments, etc. have not been listed. Also, the communications listed below are not listed on the Form PTO/SB/08 because in other situations they have been crossed off the SB/08 form to prevent them from being listed on the front of the patent even though they were considered by the Examiner. Applicant believes this is a more efficient way to bring these communications to the Examiner's attention. For completeness, communications in the above-identified application are also included in the list.

Identification No.	Filing Date	Title of Application						
App. No.: 10/076,144 Abandoned	February 15, 2002	Filtration Media of Porous Inorganic Particles						
PCT/US02/05753 Int'l Pub. No.: WO 02/070105	February 28, 2002	Filtration Media of Porous Inorganic Particles						
 International Search Report, mailed on October 24, 2002 (a copy is provided with this Information Disclosure Statement as WO 02/070105 A3). 								
Patent No.: 6,814,783 Patent App. Pub. No.: 2004/0011203 App. No.: 10/363,849	March 14, 2003	Filtration Media of Porous Inorganic Particles						
 Non-Final Rejection, mailed or Reply and Amendment, submined Examiner Interview Summary 	tted on April 26, 2004							
Patent App. Pub. No.: 2005/0028498 App. No.: 10/632,805 Pending	August 4, 2003	Separation Apparatus						
 Non-Final Rejection, mailed on Reply, filed on May 4, 2005. Final Rejection, mailed on Jun 	-	A						
Patent App. Pub. No.: 2004/0139858 App. No.: 10/690,454 Pending	October 22, 2003	Filtration Media of Porous Inorganic Particles						
Patent App. Pub. No.: 2005/0087069 App. No.: 10/699,573 Pending	October 31, 2003	High Capture Efficiency Baffle						
- Non-Final Rejection, mailed or	n April 28, 2005.							
Patent App. Pub. No.: 2005/0016376 App. No.: 10/866,250 Pending	June 14, 2004	Filtration Media						
Patent App. Pub. No.: 2005/0002833 App. No.: 10/894,032 Pending	July 20, 2004	Filtration Media						
Non-Final Rejection, mailed of Reply, filed on April 28, 2005.	•	`						
PCT/US2004/023377 Int'l Pub. No.: WO 2005/017415 Pending	July 21, 2004	Separation Apparatus						

Identification No.	Filing Date	Title of Application					
App. No.: 10/934,636 Pending	September 3, 2004	Filtration Media of Porous Inorganic Particles					
PCT/US2004/032311 Pending	October 19, 2004	High Capture Efficiency Baffle					
- International Search Report and Written Opinion, mailed on March 1, 2005 (9 pages (a copy is provided with this Information Disclosure Statement).							

RELEVANCE OF EACH DOCUMENT

An English abstract for CN 1380248 states: "The present invention discloses a kind of a silica gel product, its mean grain size is 0.5-10 mm, mean specific surface area 10-1000 sq.m/g, mean pore volume 0.2-2.0 ml/g and stacking density is 300-850g/l. Said product is made up by adopting conventional silica gel production process, controlling reaction pH value at 7.2-9.0 or 5.0-6.8 and defining alkaline or acidic gel poijnt so as to obtain the invented product. At least, 50% granular form is made into oblate spheroid form and/or go chessman form and/or spherical crown form." Applicants were unable to obtain a copy of this document. This is the reason that this reference is not listed on the attached SB/08 form.

An English abstract for CN 1522958 states: "The production method of macroporous spherical silica gel includes the following processes: placing the sodium silicate solution and dilute sulfuric acid into a mixed-rotating granulating equipment to make step-by-step reaction and jet the above-mentioned materials into air by means of nozzle of said granulating equipment, then making polycondensation to produce gel granules, then making the gel granules undergo the processes of ageing, acid soaking, water washing and drying so as to obtain the macroporous spherical silica gel product or making the gel granules undergo the processes of acid soaking, water washing, ageing, secondary acid soaking and drying so as to obtain the macroporous spherical silical gel product whose mean pore size is 10-45 nm, mean pore volume is 1.00-2.20 ml/g and mean specific area is 200-550 sq.m/g." Applicants were unable to obtain a copy of this document. This is the reason that this reference is not listed on the attached SB/08 form.

An English abstract for DE 299 06 345 states: "NOVELTY - Suspended air cleaning unit has an air cleaning set consisting of filter net layers enclosing a fleece layer and an active carbon layer. DETAILED DESCRIPTION - Unit includes cover plates (2) attached to the air inlet and outlet, a frame plate (21) with a central bore (211) attached to the air inlet, and a holding plate (3) attached to the frame plate. The central bore of the frame plate is joined to an inlet (41) of a fan (4). An outlet (43) of the fan is joined to one end of an air duct whose other end is joined to the cover plate (2) of the air outlet. A cover housing (6) is fixed to the bottom end of the air inlet cover plate (2). This housing accommodates an air cleaning set (7) consisting of filter net layers (71, 72) with a fleece layer (73) and an active carbon layer (74) between them. USE - For air cleaning in offices, public buildings etc., in addition to air conditioning. ADVANTAGE - Polluted air rising into room upper regions can be effectively cleaned. DESCRIPTION OF DRAWING(S) - The drawing shows the suspended air cleaner. Cover plate (2) Holding plate (3) Fan (4) Cover housing (6) Air cleaning set (7) Frame plate (21) Filter net layers (71, 72) Fleece layer (73) Active carbon layer (74) Central bore (211)

From the figures, DE 299 06 295 appears to be related to filtration systems.

An English abstract for DE 200 05 154 states: "NOVELTY - The chimney cowl may be used in a kitchen to take off smoke and steam and vapors and may include a filter to capture droplets of oil and fat. The filter may be installed in the bottom section (3) of the vertical flue and may slope at an angle to the horizontal. Joints (22) separate the bottom section from an intermediate section (4) and a top section (5). USE - Flue offtake for use in kitchen.

ADVANTAGE - Simple structure of flue and fume hood. DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of a flue. Bottom section (3) Intermediate section (4) Top section (5) Joints (22)."

An English abstract for DE 199 06 318 states: "NOVELTY - For installation in a kitchen upper cabinet, the steam withdrawal hood involves at least one blower motor and several grease filters for cleaning air containing grease-loaded vapors. At least one grease filter (4) is incorporated in a divided vapor screen, which comprises a drawer-type withdrawable part and a

fixed part. DETAILED DESCRIPTION - In the pushed-in state the withdrawable part (6.1) of the vapor screen (6) is arranged above the fixed part (6.2). The grease filter (4) is beneath the withdrawable part and its one side (4.1) is pivotably arranged on two opposing sides of the vapor screen in a rotary point (8). A carbon filter (9) is provided between an upper grease filter (5) and the blower motor (3). USE - As a steam withdrawal hood for installation in a kitchen upper cabinet. ADVANTAGE - The hood, apart from having a suction surface which is as large as possible, also has a simple structure and the passage of unfiltered air to the blower is prevented. DESCRIPTION OF DRAWING(S) - The figure presents a side view of the steam withdrawal hood built into the cabinet part with a pushed-in vapor screen. Blower motor (3) Grease filter (4) One side of grease filter (4.1) Upper grease filter (5) Vapor screen (6) Withdrawable part of vapor screen (6.1) Fixed part of vapor screen (6.2) Rotary point (8) Carbon filter (9)"

An English abstract for DE 198 10 818 states: "NOVELTY - The mobile extractor (1) is positioned over a cooking unit (2) on which food is being prepared and fumes and moisture are drawn into a duct (3) into a ventilation and filter unit (4) to be discharged (14). The height and reach of the hood (19) is variable. USE - For canteens and kitchens with multiple cooking areas. ADVANTAGE - May be accurately positioned where needed. DESCRIPTION OF DRAWING(S) - The drawing shows an isometric view of the extractor in position. Extractor (1) Cooker (2) Duct (3) Filter unit (4) Outlet (14) Hood (19)"

An English abstract for DE 197 05 808 states: "The new grid separates fluid and/or solid particles from a gas flow by inducing swirl. It comprises profiles with long edges overlapping to form flow channels. In the regions of overlap, the gas flow is repeatedly deflected. Particles separate and are collected in an edge channel of each profiled section. This channel forms a dead space as regards flow. In this novel design, the grid comprises only one row of mutually adjacent sections (1). The cross-section of each is a double-U shape. The first (2) opens downstream, the second (4) upstream. The side wall (6) of the first U-section (2) is spaced away from the walls (9, 7) of the collection channel (8), both sections sharing a common intermediate wall (5). The sidewall (6) of the first section (2) and that (9) of the collection channel (8) end at the same

height. The profile (1) is fastened by the upper and/or lower part of its U-shaped sections (12, 13) to a separator grid support frame."

An English abstract for DE 196 13 463 states: "A filter element for a gas filter, comprises a primary filter layer made of a fleece, tissue, paper, felt or other porous layers, and a secondary filter layer made of open pored material based on plastic, inorganic or organic substances. The open pores system is a recycled material or plant product, and the pore size ensures an adsorber function. The second filter layer preferably has a germ inhibiting fleece covering. Polyurethane foam is especially used. USE - The filter element is used in a gas filter. ADVANTAGE - The filter element is economical to produce."

An English abstract for DE 102 08 474 states: "A filter system extracts particles and/or drops of liquid from air flowing through the filter system. The filter system has a filter layer disposed in a plane and a cyclone collector that is disposed in the edge region of the filter layer. The cyclone collector is provided with a device which, compared with the filter layer, creates a higher flow speed and stronger vortexing of the circulating air. The cyclone collector can be produced from horizontal cyclone elements, curved, horizontal elements or from expanded metal."

An English abstract for DE 101 27 678 states: "The air filter comprises a filter plate (1) with two or more parallel plate like filter elements (2, 3, 4) with a narrow flat interspace (9) inbetween and with water jets (15) directed into the interspace and associated with water receptacles such as inclined grooves (16) to create a water curtain (13) which covers more than half the flat area extension of the flat interspace. The distance between the water jets and the receptacles should be no more than 15 cm."

An English abstract for DE 101 26 842 states: "In a kitchen air filtration process, grease and water are first removed followed first by removal of residual moisture in a drying process and then with removal of odors by adsorption. An Independent claim is included for a kitchen air filter hood with a vortex filter (1), a rib-mesh grease trap (2), drier (3) and odor (4) filters. The

filters (1-4) are all integrated within the same filter insert. The vortex filter has a grease and water drain tube (5). The air drier filter structure comprises zeolite with higher water affinity than active carbon granules, or silica-gel, or slowly-dissolving inorganic salts, or a polymer. The drier salt crystals are held within a fine-pored polyurethane foam, and discharge through the vortex generator outlet to a trap (6)."

From the figures, DE 93 11 478, DE 91 05 430, and DE 87 01 860 appear to be related to filtration systems.

An English abstract for DE 81 02 859 states: "This device is provided with a suction fan and has a housing (1) in which a plurality of superposed filter elements (12, 14) is accommodated. A suction branch for the medium to be purified is provided in the lower housing region, and an outlet opening (20) for the purified medium is provided on the upper side of the housing. Below the lowest filter element (12) there is a pre-precipitation chamber, in which the suction fan is located. The superposed filter elements (12, 14) preferably consist of three filters, namely a pre-filter (12), a main filter and an after-filter (14), which can be replaced without great technical effort - for the pre-filter (12) and/or the main filter, a frame (15, 16) can be provided for this purpose, which can be inserted into the housing (1) from the side, and for the after-filter (14) a frame (17) can be provided which rests on a housing shoulder. In a preferred embodiment, the outlet opening (20) for the purified medium is provided in a housing hood (18) which, sealed under the action of its own weight, rests on the after-filter (14) or the frame (17) thereof. The device is preferably used for extracting and purifying welding fumes."

From the figures, DE 74 17 517 appears to be related to filtration systems.

An English abstract for DE 44 27 074 states: "Two closely adjacent rows of spaced sections, having U-shaped cross sections, present open and closed surfaces to the air flow. The long edges of adjacent sections project into each other's interior, forming an alternating row. The long edges of the downstream row (2.1,2.2) are re-entrant in section, forming channels (5) by their inward curvatures. These are dead spaces for flow, and here the particles settle and drain

away. The sections (6.1, 6.2, 6.3, 7.1, 7.2) are sheet metal. The sections (1.1, 1.2, 1.3, 2.1, 2.2, 6.1, 6.2, 6.3, 7.1, 7.2) are fastened by their ends to further U-section frames (8), with alternating tabs (9) at the sides. The tabs (9) are fastened to the interior sides of the sections (6.1, 6.2, 6.3, 7.1, 7.2)."

An English abstract for DE 41 38 845 states: "The cartridge (20) has part sections (24) of the same opening profile, with preferred air flow through them. Other sections (25) block the through flow. Relative arrangement of the different sections can be adjusted according to the intake characteristics of the extractor fan (14). The intake side of the fan is at a min. vertical distance of 100 mm to the discharge side of the cartridge. The filter material (22) is a grease filter. ADVANTAGE - Intake speed of air is maintained constant within a defined speed range, for even grease deposit."

An English abstract for DE 40 39 855 states: "A vacuum cleaner (1) has a fan (5) and a charcoal filter (3), and in circuit with the fan (5) is a device (7) for the prevention of smoke and fire. It closes the valve (17) in the air extract shaft (6) and interrupts the flow to the fan (5). The device (7) can be a fusible link or a thermostat. USE/ADVANTAGE - Prevents the spread of fire when overheating of fat threatens to ignite the charcoal filter."

An English abstract for DE 40 16 582 states: "To improve the cleaning action in a device for separating fluids from a gas current, especially for oil mist, with two curved deflection surfaces facing each other on their concave sides with some lateral staggering, along which a current of air to be cleaned flows in succession, it is proposed that at least one of the deflection surfaces extends over an arc or more than 180 DEG and that the gas stream substantially tangentially entering the chamber formed by this deflection surface crosses the flow path of the entering gas current on leaving the chamber."

An English abstract for DE 37 12 279 states: "An air filter for fumes arising during soldering or plastic welding operations comprises a casing with an exhauster and a filter, also an air inlet and outlet. A first part of the casing with the filter has an air inlet which is detachably

joined to a second part with the exhauster. The former part contains a prefilter and an activated carbon filter. A plate with through holes separates it from the second part. ADVANTAGE - Requires only a moderate amount of equipment for the complete removal of all harmful particles. The device is simple, portable and saves space."

An English abstract for DE 33 09 208 states: "1. Fume hood with an elongate extraction chamber, with an exit air connection for discharging extracted exit air and with a fresh air supply chamber and a fresh air collection chamber, between which heat exchange elements, through which fresh air can flow, of a recuperator are arranged which is provided in the extraction chamber of the hood and around which the exit air flows, characterized in that the fresh air supply chamber (5) and the fresh air collection chamber (6) are arranged in the region of the top side of the extraction chamber (3) each along one edge of the hood and extend over at least approximately the entire length of the hood, and that the heat exchange elements (26) are arranged transversely to the longitudinal direction of the hood."

An English abstract for DE 24 44 741 states: "The gases, vapours, smoke etc. from the cookr or hearth rise up and are deflected by the deflector to and through a non-inflammable e.g. metal filter which separates the glowing particles entrained by the vapours. The gas etc. are then drawn up through the degreasing filter which is offset relative to the first filter so that degreasing is carried out away from the flames and heat of the cooker thus reducing the risk of fire. The temp. of the gases is reduced to below 100 deg.C before they reach the final filter by extending the time in which the gases etc. contact the walls of the filter device which is kept at a farily low temp. since it is automatically cooled by the atmosphere. In the case of a charcoal fire, a further plate can be added just above the burning hearth to remove the solid particles."

From the figures, DE 2 206 904 appears to be related to filtration systems.

An English abstract for DE 2 163 183 states: "A suction chamber is open at the front to collect the spray mists, followed by a flat air permeable front filter and a back filter which is a water receiver mixing chamber acting as a flow channel for the air which ends in the lowest

water basin. The water receiver encloses the water surface in the basin and at its outlet is directed first up and then down toward the dirt collecting vessel separated from the basin and deflecting the air current upwards again so that the dirt particles cannot return. The sprays and mists are thus drawn in evenly over the entire surface of the suction device. Most of the particles are removed by the front filter and the preliminary purified air is passed into the elutriation system."

From the figures, DE 2 035 789, DE 1 979 281, and DE 836 344 appear to be related to filtration systems.

An English abstract for EP 1 134 501 states: "The chimney cowl may be used in a kitchen to take off smoke and steam and vapors and may include a filter to capture droplets of oil and fat. The filter may be installed in the bottom section (3) of the vertical flue and may slope at an angle to the horizontal. Joints (22) separate the bottom section from an intermediate section (4) and a top section (5)."

An English abstract for EP 1 055 883 states: "NOVELTY - An electric drive (18) and control (40) are used to switch valve flap (16) between exhaust (C) to circulation (A) modes depending on the outside temperature (32) automaticaly. Circulation is automaticaly switched in below a pre-set temperature and exhaust above a second pre-set temperature. Between these two temperature levels the switching flap (16) is switched to an intermediate setting (B) offering part exhaust and part circulation. The valve is automatically controlled by the drive (18) control (40) as a function of temperature so as to switch to mode (B) when the outside temperature is within a pre-set range, using the connection between temperature sensor (32) and control (40). Fume filter (14) is operably connected to the drive (18) and thus switched into the air flow in exhaust mode and out of the air path during circulating action. USE - Domestic fume hoods and their control. ADVANTAGE - The switching valve offers exhaust, circulating and intermediate mixed modes of operation as an automatic function of outside temperature. DESCRIPTION OF DRAWING(S) - The drawing shows the fume hood in vertical section. hood (4) fat filter (6) blower (8) air flow (9) housing (10) hood funnel (11) fume filter (14) flap valve (16) electric

drive (18) connectors (26) vent (28) circulating channel (29) temperature sensor (32) signal lines (36,38) control (40) circulating mode (A) intermediate mode (B) exhaust mode. (C)."

An English abstract for EP 0 974 790 states: "NOVELTY - The system has a flue pipe attached to a wall or ceiling and cont. a fan (9), a filter system, a screen, an illumination arrangement (12) and an electrical controller for the fan and illumination arrangement. The active mechanical, electrical, electronic and electric motor devices (9,12) required for the operation of the hood and their connectors, electrical connections and the fume filters (15,16) are combined into a base unit (7) and mounted as a module in a tubular housing. The base unit can be optionally mounted on the side walls or ceiling of the room. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of producing a fume extraction hood system. USE - For fume extraction for different types of equipment. ADVANTAGE - Different types of equipment can be fitted with fume extraction hood systems using a common technology and base unit. DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of a base unit base unit (7) fan (9) illumination arrangement (12) filters (15,16)."

An English abstract for EP 0 726 428 states: "A laminar air flow safety work-bench is covered by a housing incorporating one or more access openings, a filter, and means by which air to be filtered is guided. The novelty is that the filter (1) is a composite material made of two or more fibre layers separated by a third absorbent layer. USE - The bench protects the user and surrounding workers from exposure to harmful substances in esp. pharmaceutical, biological, chemical and electronic industry laboratories. Further, the product is protected from harmful environmental influences. The active carbon or zeolite filter replaces filters made of non-woven fibres or fleece. ADVANTAGE - The level of protection is enhanced for both the user and the product."

An English abstract for EP 0 612 962 states: "The extractor hood has a number of adjacent grease separation cells (1), each with a collection space (2) which is open at the bottom and a suction opening (4) leading to an extraction duct (3) via a grease filter (5). A shutter carrier (7) lies adjacent the suction opening of each cell, the carriers of all cells, adjusted in common

transverse to the suction openings to adjust the position of the shutter plates (8) between a closed and open position of the suction opening. Pref. the extractor hood incorporates two lights using tubular light sources (24) housed in sealed spaces at the front and rear of the hood, each sealed by a transparent safety glass cover. ADVANTAGE - Rapid adjustment between different operating modes."

An English abstract for EP 0 443 673 states: "The noxious vapours and gases in waste gas from paint spraying booths, hardening plant or other industrial installations are made harmless by flameless combustion at 800-1000 deg.C, producing only water vapour and CO2. In suitable stack appts., an electrically driven fan (3) sucks the mixt. from a base inlet (2) through a series of superimposed compartments. After lower compartments (4) where fabric filters trap entrained solids from the polluted mixt. is a chamber (6) contg. active carbon filters, followed by a buffer chamber (7) contg. sensors (9) whose diffusion potential is altered by hydrocarbons or organic derivs. and activate the control circuit for valves (8,12). A by-pass pipe (11) holds the combustion element (13), only operated when the sensors open a valve (12) i.e. when the other valves are closed. The adsorption filters are pref. regenerated in a normal manner.

ADVANTAGE - Reduces atmos. contamination by environmentally damaging prods. also presenting health hazards."

An English abstract for EP 0 121 809 states: "Fume hood with an elongate extraction chamber, with an exit air connection for discharging extracted exit air and with a fresh air supply chamber and a fresh air collection chamber, between which heat exchange elements, through which fresh air can flow, of a recuperator are arranged which is provided in the extraction chamber of the hood and around which the exit air flows, characterised in that the fresh air supply chamber (5) and the fresh air collection chamber (6) are arranged in the region of the top side of the extraction chamber (3) each along one edge of the hood and extend over at least approximately the entire length of the hood, and that the heat exchange elements (26) are arranged transversely to the longitudinal direction of the hood. (9pp) DE 3309208 A The extractor hood has an elongated suction chamber (3) in which the heat exchange elements (26)

are mounted transverse to the longitudinal extension. At the top of the suction chamber there is a header chamber (5) for the incoming air and a collecting chamber (6) which extend more or less over the entire length of the hood. Setting the heat exchange elements across the longitudinal direction produces a larger entry surface for the incoming air, so that even where a great deal of incoming air is required optimum flow conditions prevail. There is also a greater heat exchange surface per meter of hood. ADVANTAGE - Increased utilisation of the heat content of the waste air."

An English abstract for EP 0 046 137 states: "Within the body (1) of the hood, a circular baseplate (4) is fixed between two rings (2,3) and carries a motor (5) on fixing brackets (6). The motor is surrounded by a protective chimney (7). The axial shaft (9) of the motor drives a corrugated or folded rotor (13) formed of e.g. woven fibre or blotting-paper with a rough surface, which extracts and retains solid and liq. particles of all sizes from the air drawn through an inlet (18). The air is expelled through holes (8) in the baseplate (4), and pollutants in its are neutralised chemically by a standard output filter (21). A fixed serpentine or tapered aerodynamic seal (20) underlying but not touching the rotor (13) prevents any recirculation of air once drawn through the inlet (18). The hood is lightweight, compact and independent of any ducting, and requires only a low-voltage single-phase AC supply."

An English abstract for EP 0 007 385 states: "A filter for removing greasy or oily particles from a gas flow, esp. from air extracted from a kitchen, comprises a large number of parallel rods distributed over the entire cross-section through which the gas flows. In a pref. embodiment, several sets of the rods are arranged in rows behind one another in the direction of flow of the gas, the rods of one row being staggered relative to the next row and so on. The width of the gaps between the rods is at most equal to twice the width of the rods in the next row and preferably is equal to the width of those rods. Oily and greasy substances trapped on the rods flow downwards continuously so that the filter is self-cleaning."

An English abstract for FR 2 768 942 states: "NOVELTY - Filter for treating gaseous effluents to suppress odours, with a cyclonic exchange filter, at least one active carbon filter and

at least one filter made of active carbon fibres. Filter cassette made of a sealed envelope with an inlet and outlet at opposite ends, containing a cylindrical filter element of the same length sealed to its sides. One end of the cassette moves to exchange elements. DETAILED DESCRIPTION -The filter also contains means of spraying water upstream of the active carbon filters, at the outlet to the cyclonic exchanger filter. A droplet filter is also placed upstream of the active carbon filters. The filter contains several active carbon filters of different microporosity arranged in decreasing size in the direction of gas flow. The first of these has micropores of 30nm and the second of 10nm. The active carbon fibre filter has a microporisity of at most 1nm. At least one element is made of active carbon tissue, supported by a support material which is permeable to the gas. This support is a mesh, net or metal tissue. The active carbon fibres are generally wavy and the active carbon filters are mounted inside a cylindrical or parallelpiped cassette. These cassettes are heated by infrared radiation of less than 2mm wavelength, to raise the temperature during desorption. USE - Removal of Industrial kitchen or restaurant smells. ADVANTAGE -No need for high dilution, with replaceable cassettes which can be regenerated quickly and effectively. DESCRIPTION OF DRAWING(S) - Filter installation Cyclonic exchanger (60) Water spray (80) Droplet filter (90) Active carbon filter (70) Active carbon filter support (102)."

From the figures, FR 2 423 255 appears to be related to filtration systems.

An English abstract for FR 2 338 092 states: "The suction cowl has a filter panel in the front face for the gases drawn in by a fan inside the housing. On the top edge of the housing is a hinged shutter with front and side sections, there being a transparent parel in the front section. In front of the filter panel (2) is a heater (17), and the housing has a deflector (19) returning the filtered gases propelled by the fan (5) to the base of this heater. The deflector can be attached to the housing top face, having a pivoting shutter (21) at this point to control the air pressure. There can be a further adjustable shutter on the deflector to regulate combustion.

From the figures, FR 2 244 558 appears to be related to filtration systems.

An English abstract for FR 2 066 045 states: "The purifying appts. is intended for the removal of greasy and odorous particles from the hot, humid air derived from cooking and frying operations. It is housed in a parallelepiped envelope fitted with hoods and pipe connections. The envelope is subdivided by air deflectors into individual, superimposed air channels which guide the air to be purified through filters placed side-by-side in the channels. The air passes obliquely upwards through moist absorbent filters and then downwards through dry adsorbent filters; the filters are fixed in frames, placed in uides so that they can be withdrawn easily and replaced. The filters, in combination, remove the objectionable cooking smell in a satisfactory and inexpensive manner."

An English translation of the foreign-language documents is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

INVENTORSHIP

Applicants respectfully note that there was some collaboration between at least one Applicant of the present application and at least one inventor, Kyle A. Brownell, of U.S. Patent Application Publication No. 2003/016093, entitled "Two Stage Air Filter," in developing a filtration system for filtering grease from a ventilation system. The inventorship of this patent application has been reviewed in light of this and is believed to be correct.

FEE

A fee in connection with submission of an information disclosure statement under 37 CFR §1.97(c) in the amount of \$180.00 in accordance with 37 CFR §1.17(p) is attached.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447.

Respectfully submitted,

Date ____ June 21, 2005

Ву ____

FOLEY & LARDNER LLP

Customer Number: 22428

Telephone:

(414) 297-5718

Facsimile:

(414) 297-4900

Scott C. Nielson

Attorney for Applicant Registration No. 50,755

MODIFIED PTO/SB/08 (08-00)

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Date Submitted: June 21, 2005

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Sheet 1 of 5

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Application Number	10/699,573					
Filing Date	10/31/2003					
First Named Inventor	Entezarian et al.					
Group Art Unit	1724					
Examiner Name	Hopkins, Robert A.					
Attorney Docket Number	065640-0221					

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	U.S. Patent Document Kind Code² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	INFORMATION D	ISCLO	SURE	Application Number	10/699,573		
	STATEMENT BY	APPLI	CANT	Filing Date	10/31/2003		
	Date Submitted: J	luna 21	2005	First Named Inventor	Entezarian et al.		
	Date Gabrintea.	rune 2 i	, 2003	Group Art Unit	1724		
(use as many sheets as necessary)				Examiner Name	Hopkins, Robert A.		
Sheet	2	of	5	Attorney Docket Number	065640-0221		

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	STATEMENT	BY APPLI	CANT	Filing Date	10/31/2003			
	Date Submitte	ad: Juna 21	2005	First Named Inventor	Entezarian et al.			
	Date Gubillitte	su. June 2 i	, 2003	Group Art Unit	1724			
(use as many sheets as necessary)				Examiner Name	Hopkins, Robert A.			
Sheet	3	of	5	Attorney Docket Number	065640-0221			

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Examiner Initials*	Cite No. ¹	Offi ce ³	oreign Patent Doct	ument Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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	INFORMATION	N DISCLO	SURE	Application Number	10/699,573	
	STATEMENT E	BY APPLI	CANT	Filing Date	10/31/2003	
	Date Submitted	li luna 21	2005	First Named Inventor	Entezarian et al.	
	Date Submitted	ı. Julie 2 i	, 2003	Group Art Unit	1724	
	(use as many she	ets as ne	cessary)	Examiner Name	Hopkins, Robert A.	
Sheet	4	of	5	Attorney Docket Number	065640-0221	

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Sheet	5	of	5	Attorney Docket Number	065640-0221	

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